SECTION 905 -- PROPOSAL (CONTINUED)

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.	**1**	DATED	**1/21/2015**	ADDENDUM NO.		DATED	
ADDENDUM NO	**2**	DATED	**01/21/2015**	ADDENDUM NO.		DATED	

Number	Description
1	Wage Rates, BidItems, Revised or Added Plan Sht. Nos. 2, 14, 19, 23-29, 31, 33, 35, 36, 37, & 39; Amendment EBS Download Required.
2	BidItems; Revised or Added Plan Sht. Nos. 2, 3, 16, & 2003-2008; Amendment EBS Download Required.

TOTAL ADDENDA: **2**
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

_____
Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

President	Address
Secretary	Address
Treasurer	Address

The following is my (our) itemized proposal.

Intersection Improvements on SR 53 at Canal Road and County Farm Road, known as Federal Aid Project No. HSIP-0064-01(029) / 105293301 in Harrison County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
			Roadway Items		
0010	201-A001		1	Lump Sum	Clearing and Grubbing
0020	201-B001		1	Acre	Clearing and Grubbing
0030	202-B064		784	Linear Feet	Removal of Pipe, 8" And Above
0040	202-B078		2,130	Square Yard	Removal of Pavement, All Types and Depths
0050	203-A003	(E)	4,049	Cubic Yard	Unclassified Excavation, FM, AH
0060	203-EX038	(E)	12,715	Cubic Yard	Borrow Excavation, AH, FME, Class B7-6
0070	206-A001	(S)	400	Cubic Yard	Structure Excavation
0080	209-A004		13,342	Square Yard	Geotextile Stabilization, Type V, Non-Woven
0090	211-A001		29,920	Square Yard	Topsoil for Slope Treatment, From Right-of-Way
0100	213-C001		7	Ton	Superphosphate
0110	220-A001		7	Acre	Insect Pest Control [$30.00]
0120	223-A001		7	Acre	Mowing [$50.00]
0130	234-A001		300	Linear Feet	Temporary Silt Fence
0140	406-A001		2,130	Square Yard	Cold Milling of Bituminous Pavement, All Depths
0150	423-A001		2	Mile	Rumble Strips, Ground In
0160	503-C007		8,300	Linear Feet	Saw Cut, Full Depth
0170	602-A001	(S)	1,614	Pounds	Reinforcing Steel
0180	603-CA088	(S)	464	Linear Feet	18" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0190	603-CA089	(S)	96	Linear Feet	24" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0200	603-CA091	(S)	32	Linear Feet	36" Reinforced Concrete Pipe, Class III, Rubber Type Gaskets
0210	603-CB002	(S)	1	Each	24" Reinforced Concrete End Section
0220	603-CB004	(S)	2	Each	36" Reinforced Concrete End Section
0230	603-CE041	(S)	120	Linear Feet	29" x 18" Concrete Arch Pipe, Class A III, Flexible Plastic Gaskets
0240	603-CF002	(S)	2	Each	29" x 18" Concrete Arch Pipe End Section
0250	609-D002	(S)	2,082	Linear Feet	Combination Concrete Curb and Gutter Type 2
0260	616-A001	(S)	441	Square Yard	Concrete Median and/or Island Pavement, 4-inch
0270	616-A003	(S)	2,961	Square Yard	Concrete Median and/or Island Pavement, 10-inch
0280	619-A1003		12,286	Linear Feet	Temporary Traffic Stripe, Continuous White, Paint
0290	619-A2003		17,931	Linear Feet	Temporary Traffic Stripe, Continuous Yellow, Paint
0300	619-A5001		5,105	Linear Feet	Temporary Traffic Stripe, Detail
0310	619-A6001		869	Linear Feet	Temporary Traffic Stripe, Legend
0320	619-D1001		77	Square Feet	Standard Roadside Construction Signs, Less than 10 Square Feet

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0330	619-D2002		560	Square Feet	Standard Roadside Construction Signs, 10 Square Feet or More, Permanent
0340	619-G4005		48	Linear Feet	Barricades, Type III, Double Faced
0350	619-G5001		214	Each	Free Standing Plastic Drums
0360	619-G7001		4	Each	Warning Lights, Type "B"
0370	620-A001		1	Lump Sum	Mobilization
0380	627-J001		38	Each	Two-Way Clear Reflective High Performance Raised Markers
0390	627-K001		157	Each	Red-Clear Reflective High Performance Raised Markers
0400	627-L001		711	Each	Two-Way Yellow Reflective High Performance Raised Markers
0410	630-A001		48	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0420	630-A002		148	Square Feet	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0430	630-C003		98	Linear Feet	Steel U-Section Posts, 3.0 lb/ft
0440	630-E004		157	Pounds	Structural Steel Angles & Bars, 7/16" x 2 1/2" Flat Bar
0450	630-K003		144	Linear Feet	Welded & Seamless Steel Pipe Posts, 4"
0460	635-A001		1,416	Linear Feet	Vehicle Loop Assemblies
0470	636-A005		3,691	Linear Feet	Shielded Cable, AWG #14, 2 Conductor
0480	638-A005		4	Each	Loop Detector Amplifier, Card Rack Mounted, 4 Channel
0490	640-A016		12	Each	Traffic Signal Heads, Type 1 LED
0500	640-A018		4	Each	Traffic Signal Heads, Type 3 LED
0510	640-A056		4	Each	Traffic Signal Heads, Type 2 FYA LED
0520	642-A001		2	Each	Solid State Traffic Actuated Controllers, Type 8M
0530	645-A001		2	Each	Flasher Assembly
0540	647-A001		11	Each	Pullbox, Type 1
0550	647-A002		2	Each	Pullbox, Type 3
0560	647-A005		8	Each	Pullbox, Type 2
0570	653-B001		152	Square Feet	Street Name Sign, Encapsulated Lens
0580	666-B022		303	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 8, 2 Conductor
0590	666-B054		1,669	Linear Feet	Electric Cable, Underground in Conduit, IMSA 20-1, AWG 14, 8 Conductor
0600	668-A018		1,060	Linear Feet	Traffic Signal Conduit, Underground, Type 4, 2"
0610	668-B024		1,139	Linear Feet	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 2"
0620	668-B025		320	Linear Feet	Traffic Signal Conduit, Underground Drilled or Jacked, Rolled Pipe, 3"
0630	815-A009	(S)	100	Ton	Loose Riprap, Size 300
0640	907-225-A001		3	Acre	Grassing
0650	907-225-B001		40	Ton	Agricultural Limestone

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
0660	907-225-C001		27	Ton	Mulch, Vegetative Mulch
0670	907-226-A001		7	Acre	Temporary Grassing
0680	907-234-D001		2	Each	Inlet Siltation Guard
0690	907-237-A003		1,808	Linear Feet	Wattles, 20"
0700	907-246-A001		40	Linear Feet	Sandbags
0710	907-249-A001		26	Ton	Riprap for Erosion Control
0720	907-403-A023	(BA1)	3,139	Ton	12.5-mm, MT, Asphalt Pavement
0730	907-403-A024	(BA1)	1,172	Ton	19-mm, MT, Asphalt Pavement
0740	907-403-A022	(BA1)	2,259	Ton	9.5-mm, MT, Asphalt Pavement
0750	907-403-A019	(BA1)	1,676	Ton	19-mm, ST, Asphalt Pavement
0760	907-407-A001	(A2)	3,266	Gallon	Asphalt for Tack Coat
0770	907-601-B003	(S)	21	Cubic Yard	Class "B" Structural Concrete, Minor Structures
0780	907-603-ALT01	(S)	1,478	Linear Feet	18" Type A Alternate Pipe
0790	907-617-A001		49	Each	Right-of-Way Marker
0800	907-618-A001		1	Lump Sum	Maintenance of Traffic
0810	907-626-B004		1	Mile	6" Thermoplastic Traffic Stripe, Continuous White
0820	907-626-C003		3	Mile	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0830	907-626-E004		4	Mile	6" Thermoplastic Traffic Stripe, Continuous Yellow
0840	907-626-G004		2,366	Linear Feet	Thermoplastic Detail Stripe, White
0850	907-626-G005		3,504	Linear Feet	Thermoplastic Detail Stripe, Yellow
0860	907-626-H004		1,121	Linear Feet	Thermoplastic Legend, White
0870	907-626-H005		944	Square Feet	Thermoplastic Legend, White
0880	907-631-B001		3	Cubic Yard	Flowable Fill, Non-Excavatable
0890	907-639-A002		3	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 50' Arm
0900	907-639-A007		2	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 40' Arm
0910	907-639-A008		2	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 55' Arm
0920	907-639-A012		1	Each	Traffic Signal Equipment Pole, Type II, 17' Shaft, 45' Arm
0930	907-639-C002		34	Cubic Yard	Pole Foundations, 36" Diameter
0940	907-639-D001		120	Linear Feet	Slip Casing, 36" Diameter
0950	907-699-A002		1	Lump Sum	Roadway Construction Stakes
			ALTERNATE GROUP AA NUMBER 1		
0960	907-304-F002	(GT)	5,452	Ton	Size 610 Crushed Stone Base
			ALTERNATE GROUP AA NUMBER 2		
0970	907-304-F003	(GT)	5,452	Ton	3/4" and Down Crushed Stone Base

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
			ALTERNATE GROUP AA NUMBER 3		
0980	907-304-F004	(GT)	5,452	Ton	Size 825B Crushed Stone Base

FMS CON.: 105293/301000

STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)

ADDENDUM

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REVISION DATE	WORKING NUMBER	SHEET. NO.
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PS & E PLANS-DATE: 11/17/2014		
FMS CON. # 105293-301000		
REVISIONS		
DATE	SHEET NO.	BY
1/13/15	14, 19, 23-29, 31, 33 35-37, 39	CLB
1/15/15	3, 16, 2003-2008	CLB

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

HWY. 53

PROJECT NO. HSIP-0064-01(029)
COUNTY : HARRISON

WORKING NUMBER: DI-1

SHEET NUMBER: 2

FILENAME: DI.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

BY | REVISION | DATE

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/15/2015 2:57 PM DI.DGN

FMS CON.: 105293/301000

ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)

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SIGNING PLAN - SITE 1 - STA. 11+80 TO STA. 18+20 - SHAW ROAD	SP-4	1004
SIGNING PLAN - SITE 2 - STA. 340+00 TO STA. 346+20 - HWY 53 - PALAMINO DRIVE	SP-5	1005
SIGNING PLAN - SITE 2 - STA. 346+00 TO STA. 352+40 - HWY 53 - CANAL ROAD - MARK WEST ROAD	SP-6	1006

DESCRIPTION OF SHEET	WKG. NO.	SH. NO.
TRAFFIC SIGNAL SHEETS (8)		
HWY 53 AT COUNTY FARM ROAD	TSI-1	2001
HWY 53 AT CANAL ROAD	TSI-2	2002
DETAIL OF TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS, AND GENERAL NOTES	TSD-1	2003
LOOP DETECTOR DETAILS FOR TRAFFIC SIGNAL INSTALLATION	TSD-2	2004
PULL BOX CONDUIT TRENCHING DETAILS FOR TRAFFIC SIGNAL INSTALLATION	TSD-3	2005
TYPICAL DETAILS OF CONTROLLER CABINET MOUNTINGS, TYPE 1 POLE ATTACHMENTS AND MISCELLANEOUS DETAILS	TSD-5	2006
MAST ARM AND PEDESTAL POLE DETAILS FOR TRAFFIC SIGNAL INSTALLATION	TSD-6	2007
TRAFFIC CONTROL PLAN (TYPICAL SIGNAL INSTALLATION)	TSD-7	2008
STANDARD DRAWINGS - ROADWAY SHEETS (27)		
PAVEMENT MARKING DETAILS FOR 2 LANE AND 4-LANE DIVIDED ROADWAYS	12-01-99	PM-1 6120
PAVEMENT MARKING LEGEND DETAILS		PM-6 6125
EROSION CONTROL		EC-1 6140
TYPICAL TEMPORARY EROSION CONTROL MEASURES (TYPE B SILT BASIN)		TEC-3 6144
STANDARD ROADSIDE SIGNS		SN-3 6222
STANDARD ROADSIDE SIGNS		SN-3A 6223
STANDARD ROADSIDE SIGNS	03-01-02	SN-3B 6224
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4 6225
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4A 6226
STANDARD ROADSIDE SIGN ASSEMBLY AND INSTALLATION		SN-4B 6227
TYPICAL INSTALLATION OF GROUND MOUNTED DIRECTIONAL SIGNS		SN-5 6228
BREAK-AWAY SIGN SUPPORTS		SN-6 6229
BREAK-AWAY SIGN SUPPORTS		SN-6A 6230
TRAFFIC CONTROL PLAN WITH FLAGGER (ONE-LANE CLOSURE OF TWO WAY TRAFFIC)		TCP-1 6250
SHORT DURATION CLOSING OF TWO-LANE TWO-WAY HIGHWAYS		TCP-8 6257
TRAFFIC CONTROL PLAN MOBILE OPERATIONS MULTILANE ROADS AND TWO-LANE ROADS	12-01-99	TCP-11 6260
TRAFFIC CONTROL PLAN : UNEVEN PAVEMENT DETAILS		TCP-14 6263
TEMPORARY STRIPING FOR TRAFFIC CONTROL 2-LANE AND 4-LANE DIVIDED HIGHWAYS	12-01-99	TCP-15 6264
RURAL DRIVEWAYS		RD-1 6271
TYPICAL GRADING TRANSITION BETWEEN CUTS AND FILLS		GT-1 6272
SIGHT FLARE	12-01-99	SF-1 6273
MISCELLANEOUS DETAIL SHEET 1. STACKED PIPE JOINT 2. EXCAVATION AT GRADE POINTS		MDS-1 6290
PIPE CULVERT INSTALLATION		PI-1 6300
CONCRETE PIPE COLLAR		PC-1 6301
STORM SEWER STRUCTURE : TYPE SS-2		SS-2 6322
FLARED END SECTION FOR CONCRETE PIPE		FE-1 6328
FLARED END SECTION FOR CONCRETE ARCH PIPE		FE-1A 6329
CROSS SECTIONS (36)		
B.O.P. STA. 221+00 TO STA. 240+50 - HWY 53		9001-9008
LOCAL ROAD - COUNTY FARM ROAD - STA. 4+50 TO STA. 14+47.29		9009-9014
LOCAL ROAD - SHAW ROAD - STA. 10+50 TO STA. 20+02.73		9015-9018
LOCAL ROAD - MENNONITE ROAD - STA. 6+50 TO STA. 10+00		9019-9020
STA. 338+00 TO E.O.P. STA. 358+20 - HWY 53		9021-9030
LOCAL ROAD - PALAMINO DRIVE - STA. 9+00 TO STA. 10+00		9031
LOCAL ROAD - CANAL ROAD - STA. 121+20 TO STA. 126+19.47		9032-9035
LOCAL ROAD - MARK WEST ROAD - STA. 10+45 TO STA. 12+00		9036
TOTAL SHEETS (207)		

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/15/2015 2:57 PM DI.DGN

DATE	REVISION	ADDED SHEETS	BY
1-15-15			CLB

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAILED INDEX

HWY. 53

PROJECT NO. HSIP-0064-01(029)
COUNTY : HARRISON

WORKING NUMBER
DI-2

SHEET NUMBER
3

FILENAME: DI.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

FMS CON.: I05293/301000

ADDENDUM

STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)

SUMMARY OF QUANTITIES (SHEET 3)

PAY ITEM NO.	PAY ITEM	UNIT	PRELIMINARY	FINAL	
627-J001	TWO-WAY CLEAR REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	EA	38		
627-K001	RED-CLEAR REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	EA	157		
627-L001	TWO-WAY YELLOW REFLECTIVE HIGH PERFORMANCE RAISED MARKERS	EA	711		
630-A001	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.080" THICKNESS	SF	48		
630-A002	STANDARD ROADSIDE SIGNS, SHEET ALUMINUM, 0.125" THICKNESS	SF	148		
630-C003	STEEL U-SECTION POSTS, 3.0 LB/FT	LF	98		
630-E004	STRUCTURAL STEEL ANGLES & BARS, 7/16" X 2 1/2" FLAT BAR	LBS	157		
630-K003	WELDED & SEAMLESS STEEL PIPE POSTS, 4"	LF	144		
907-631-B001	FLOWABLE FILL, NON-EXCAVATABLE	CY	3		⑩
635-A001	VEHICLE LOOP ASSEMBLIES	LF	1416		
636-A005	SHIELDED CABLE, AWG #14, 2 CONDUCTOR	LF	3691		
638-A005	LOOP DETECTOR AMPLIFIER, CARD RACK MOUNTED, 4 CHANNEL	EA	4		
907-639-A002	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II, 17' SHAFT, 50' ARM	EA	3		① ⚠
907-639-A007	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II, 17' SHAFT, 40' ARM	EA	2		① ⚠
907-639-A008	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II, 17' SHAFT, 55' ARM	EA	2		① ⚠
907-639-A012	TRAFFIC SIGNAL EQUIPMENT POLE, TYPE II, 17' SHAFT, 45' ARM	EA	1		① ⚠
907-639-C002	POLE FOUNDATIONS, 36" DIAMETER	CY	34		④ ⚠
907-639-D001	SLIP CASING, 36" DIAMETER	LF	120		⑥ ⚠
640-A016	TRAFFIC SIGNAL HEADS, TYPE 1 LED	EA	12		② ⑧ ⚠
640-A018	TRAFFIC SIGNAL HEADS, TYPE 3 LED	EA	4		② ⑧ ⚠
640-A056	TRAFFIC SIGNAL HEADS, TYPE 2 FYA LED	EA	4		② ⑧ ⚠
642-A001	SOLID STATE TRAFFIC ACTUATED CONTROLLERS, TYPE 8M	EA	2		⑤ ⑦ ⚠
645-A001	FLASHER ASSEMBLY	EA	2		⑨ ⚠
647-A001	PULLBOX, TYPE 1	EA	11		
647-A002	PULLBOX, TYPE 3	EA	2		
647-A005	PULLBOX, TYPE 2	EA	8		
653-B001	STREET NAME SIGN, ENCAPSULATED LENS	SF	152		
666-B022	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 8, 2 CONDUCTOR	LF	303		⑦ ⚠
666-B054	ELECTRIC CABLE, UNDERGROUND IN CONDUIT, IMSA 20-1, AWG 14, 8 CONDUCTOR	LF	1669		③ ⚠
668-A018	TRAFFIC SIGNAL CONDUIT, UNDERGROUND, TYPE 4, 2"	LF	1060		
668-B024	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, ROLLED PIPE, 2"	LF	1139		
668-B025	TRAFFIC SIGNAL CONDUIT, UNDERGROUND DRILLED OR JACKED, ROLLED PIPE, 3"	LF	320		
907-699-A002	ROADWAY CONSTRUCTION STAKES	LS	100%		
815-A009	LOOSE RIPRAP, SIZE 300	TON	100		

① ALL TRAFFIC SIGNAL POLES SHALL BE HOT DIPPED GALVANIZED. WIND SPEED OF 140MPH SHALL BE USED FOR DESIGN. SEE TSD-6 FOR DESIGN CRITERIA.

② ALL SIGNAL HEADS SHALL BE LED AND BLACK IN COLOR. VISORS AND BACKPLATES SHALL BE BLACK IN COLOR. ALL HEADS SHALL BE EQUIPPED WITH REFLECTORIZED BLACKPLATES. (SEE TSD-1)

③ PAY ITEM SHALL INCLUDE ELECTRIC CABLE, AERIALLY SUPPORTED IN MAST ARMS.

④ ALL FOUNDATIONS SHALL BE POURED USING CLASS "DS" CONCRETE.

⑤ TRAFFIC SIGNAL CABINETS, CONTROLLERS, MMU'S ETC. SHALL BE WIRED AND EQUIPPED TO OPERATE FYA HEADS IN COMPACT MODE. THE CABINET SHALL HAVE A REAR DOOR. AUTO-HAND SWITCH IN THE POLICE PANEL, PULLOUT TRAY AND A 7-SLOT CARD RACK. CONTROLLERS AND MMU'S SHALL BE ETHERNET READY AND COMPATIBLE WITH MDOT'S EXISITING TRAFFIC SIGNAL MANAGEMENT SOFTWARE. A LEASED DATA LINE SHALL BE PROVIDED FOR COMMUNICATION (COST ABSORBED).

⑥ SLIP CASINGS SHALL ONLY BE USED AT THE DIRECTION OF ENGINEER IF GROUNDWATER IS PRESENT IN EXCAVATED HOLE.

⑦ POWER SERVICE METER SHALL NOT BE INSTALLED ON CONTROLLER CABINET OR MAST ARM POLE SHAFTS. A SEPARATE MOUNTING POLE FOR THESE ITEMS IS REQUIRED AND SHALL BE INSTALLED AS CLOSE TO CONTROLLER CABINET AS PRACTICAL. PROPOSED LOCATION MUST BE PRE-APPROVED BY ENGINEER. SEE GENERAL NOTE #12 FOR ADDITIONAL INFORMATION. SEE TSD-5.

⑧ LENSES SHALL BE 12" NOMINAL DIAMETER AS SHOWN IN SECTION 722 IN THE MISSISSIPPI STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTURCTION.

⑨ TO BE SOLAR POWERED

⑩ PIPE ON MARK WEST RD. @ APPROX. STA. 10+25

BY	DATE	REVISION
C.L.B	1/15/15	REVISED PAY ITEMS & SHIFTED FOOTNOTE LABELS.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

HWY. 53

PROJ. NO.: HSIP-0064-01(029)

COUNTY: HARRISON

FILENAME: SQS53.DGN

DESIGN TEAM BRELAND CHECKED DATE

WORKING NUMBER SQS-3

SHEET NUMBER 16

PLAN
ROADWAY DESIGN DIVISION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

1/15/2015 3:04 PM SQS53.DGN

FMS CON.: 105293/301000

ADDENDUM

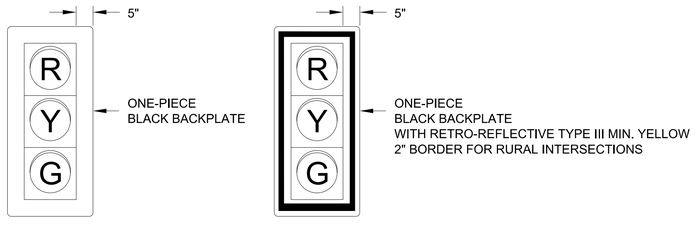
STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)

DETAIL OF TYPICAL TRAFFIC SIGNAL HEADS

TYPE 1	TYPE 2	TYPE 2 FYA	TYPE 3	TYPE 4	TYPE 5	TYPE 6	TYPE 7	TYPE 8
R Y G	R Y G	R Y FY G	R Y G G	R Y G	R Y G	COUNTDOWN TYPE LED	R Y Y G G	R SUPPLEMENTAL RED INDICATION

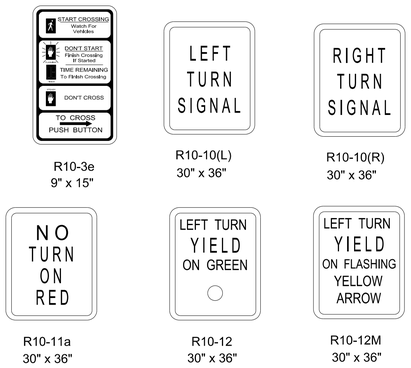
NOTES:
1. ALL SIGNAL HEADS SHALL BE BLACK IN COLOR UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL SIGNAL HEADS SHALL BE L.E.D. LENSES UNLESS OTHERWISE NOTED ON THE PLANS. TYPE "A" SIGNAL HEAD IS TO BE OPTICALLY PROGRAMMED VIA LOUVERS.
3. LETTER "R" ON HEAD TYPES MEANS RIGHT TURN ARROW(S).
4. TYPE 6 SIGNAL HEAD SHALL BE FURNISHED WITH R10-3e SIGN & PEDESTRIAN PUSHBUTTON. TYPE 6 SIGNAL HEAD SYMBOLS/NUMBERS SHALL BE FULLY ILLUMINATED (NO OUTLINE SYMBOLS ALLOWED).
5. TYPE 7 SIGNAL HEAD SHALL BE FURNISHED WITH R10-12 SIGN WHEN INDICATED ON PLANS.
   TYPE 4 & 5 SIGNAL HEADS SHALL BE FURNISHED WITH R10-10L SIGNS.
   TYPE 2 FYA SIGNAL HEAD SHALL BE FURNISHED WITH A FYA SIGN.
   COST OF SIGNAL SIGNS SHALL BE COST ABSORBED.
6. FOR SPAN WIRE INSTALLATION, THE HOUSING FOR THE RED INDICATION OF A TYPE 7 HEAD, SHALL BE ALUMINUM.

DETAIL OF TRAFFIC SIGNAL WITH BACKPLATE



NOTE:
ALL SIGNAL HEADS SHALL INCLUDE BACKPLATES
UNLESS OTHERWISE NOTED ON TRAFFIC SIGNAL INSTALLATION SHEETS.

DETAIL OF TYPICAL TRAFFIC SIGNAL SIGNS



R10-3e
9" x 15"

R10-10(L)
30" x 36"

R10-10(R)
30" x 36"

R10-11a
30" x 36"

R10-12
30" x 36"

R10-12M
30" x 36"

NOTES:
1. ALUMINUM SIGN BLANKS ARE TO BE ALLOY 5052-H38 AND 0.08" (NOMINAL) THICK.
2. THE SIGNS SHALL BE SUPPLIED WITH MOUNTING BRACKETS AS REQUIRED.
3. NUMBER 12 PLATED JACK CHAINS SHALL BE ATTACHED TO THE BOTTOM OF ALL SPAN WIRE MOUNTED SIGNS.
4. CHAINS SHALL BE ATTACHED TO SIGN AND TETHER USING "S" HOOKS.
5. THE SIZE OF THE SIGN BLANK, LEGEND, BORDER AND THE COLOR OF THE BACKGROUND AND LEGEND IS TO CONFORM TO THE M.U.T.C.D.
6. THE BACKGROUND SHALL BE REFLECTORIZED USING TYPE IX SHEETING.

SIGNAL PLAN LEGEND

	SIGNAL HEAD REQUIRED / TYPE
	EXISTING SIGNAL HEAD
	SIGN
OR	VEHICLE LOOP DETECTOR
	QUADRAPOLE VEHICLE LOOP DETECTOR
1	VEHICLE LOOP DETECTOR NUMBER
M	WIRELESS MAGNETOMETER SENSOR
	BASE MOUNTED CABINET FOR SIGNAL CONTROLLER
	POLE MOUNTED CABINET FOR SIGNAL CONTROLLER
	EXISTING POLE
	POLE REQUIRED
	NEW PEDESTAL POLE
	EXISTING PULLBOX
	PULLBOX REQUIRED (TYPE 1)
	PULLBOX REQUIRED (TYPE SPECIFIED ON PLAN SHEETS)
	MAST ARM POLE REQUIRED
	RADAR DETECTOR
	CAMERA DETECTOR
	OPTICAL DETECTOR UNIT
	CONDUIT
	ROLL PIPE
	LUMINAIRE
	RADIO INTERCONNECT ANTENNA
	TWO-WAY WIRELESS ANTENNA
	WIRELESS REPEATER
P.B.	PUSH BUTTON
S.C.	SHIELDED CABLE
POW	POWER CABLE
LUM	LUMINAIRE POWER CABLE
ODC	OPTICAL DETECTOR CABLE
4c	NUMBER OF CONDUCTORS
I.C.	INTERCONNECT CABLE
RAD	RADIO COMMUNICATIONS CABLE
FDC	FIBER DROP CABLE
VDC	VIDEO DETECTION CABLE

GENERAL NOTES

1. INTERCONNECT CABLE SHALL BE EITHER IMSA 40-2 OR IMSA 40-4 SIGNAL CABLE, STRANDED. AWG NUMBER AND NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
2. SIGNAL SUPPLY CABLE SHALL BE IMSA 20-1-1991 SIGNAL CABLE, STRANDED. AWG NUMBER AND NUMBER OF CONDUCTORS AS SHOWN ON PLANS.
3. POWER SUPPLY CABLE SHALL BE IMSA 20-1 2 CONDUCTOR CABLE, STRANDED. AWG NUMBER AS SHOWN ON PLANS.
4. DETECTOR SHIELDED CABLE SHALL BE IMSA 50-2 SIGNAL CABLE, AWG #14 STRANDED COPPER CONDUCTORS, UNLESS OTHERWISE NOTED ON THE PLANS.
5. POLES, SIGNAL HEADS, EQUIPMENT BOXES, PULLBOXES AND CONDUIT MAY BE VARIED SLIGHTLY TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. HOWEVER, SIGNAL HEAD OR POLE LOCATIONS SHALL BE WITHIN REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND HIGHWAY DESIGN AND OPERATIONAL PRACTICES RELATED TO HIGHWAY SAFETY.
6. POLES AND FOUNDATIONS OF EXISTING SIGNAL INSTALLATIONS SHALL BE CUT OFF 6" BELOW GROUND OR REMOVED AND AREA RESTORED TO MATCH ADJACENT SURFACE AS DIRECTED BY THE ENGINEER.
7. LOOP AMPLIFIERS SHALL BE REQUIRED AS SHOWN ON PLANS WHERE TWO OR MORE LOOPS ARE CONNECTED TO THE SAME CHANNEL, THEY SHALL BE WIRED IN SERIES.
8. THE CONTRACTOR SHALL PROVIDE MAST ARM POLE DESIGN CERTIFICATION AND CALCULATIONS AS OUTLINED IN SECTION 722.02 OF STANDARD SPECIFICATIONS. DESIGN STANDARD FOR MAST ARMS POLES SHALL BE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. USE FATIGUE CATEGORY II. DO NOT CONSIDER GALLOPING OR TRUCK FORCES. USE 50 YEAR DESIGN LIFE. WIND AND ICE LOADS VARIABLE BASED UPON MAPS IN THE 2001 AASHTO SPECIFICATION. USE UPSWEPT MAST ARMS.
9. DETERMINATION OF REQUIRED SIZES, LENGTHS AND GAUGES OF TYPE I, II, III AND IV STEEL POLES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SECTION 722.02 OF THE STANDARD SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN PLANS OR SPECIFICATIONS.
10. THE TOP OF THE STRAIN POLE FOUNDATION SHALL BE 6" ABOVE THE GROUND. THE CONTRACTOR SHALL PROVIDE POLES OF SUFFICIENT LENGTH PLUS 2 FEET TO PROVIDE REQUIRED VERTICAL CLEARANCE OF THE TRAFFIC SIGNAL HEADS WITHOUT EXTENDING THE FOUNDATION ABOVE THE GROUND LINE OF THE POINT WHERE THE POLE IS LOCATED, EVEN THOUGH THIS MAY BE BELOW THE FINISHED GRADE OF THE ROADWAY.
11. ALL STRAIN POLES AT AN INTERSECTION SHALL BE THE SAME DIAMETER AND UTILIZE THE SAME BOLT CIRCLE SPACING.
12. POLE FOUNDATIONS AND BASE MOUNTED CABINET FOUNDATIONS, GRADE SHALL BE ESTABLISHED TO ±3" OF EDGE OF PAVEMENT ELEVATION AS DIRECTED BY THE ENGINEER
13. TRAFFIC SIGNAL CABINETS AND CONTROLLERS SHALL BE WIRED TO PROVIDE FOR ALL PHASES INCLUDING FUTURE PHASES IN ACCORDANCE WITH THE PHASE SEQUENCE DIAGRAM.
14. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND SALVAGED BY THE CONTRACTOR WITH THE COST TO BE ABSORBED, UNLESS OTHERWISE NOTED IN THE PLANS. THE EXISTING POLES, CABINETS, CONTROLLERS, TRAFFIC SIGNAL HEADS, AND OTHER ITEMS AS NOTED ON PLANS ARE TO BE STOCKPILED AS DIRECTED BY THE ENGINEER FOR PICKUP BY STATE FORCES OR AS NOTED ON PLANS. ALL OTHER SIGNAL EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ELECTRICAL SERVICE FROM THE POWER COMPANY SERVICE POINT TO THE TRAFFIC SIGNAL CONTROLLER. FOR SPAN WIRE INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE POINT AERIAL TO THE SIGNAL POLE NEAREST THE CONTROLLER, THE SERVICE SHALL THEN RUN TO THE CONTROLLER AS SHOWN ON THE PLANS. FOR MAST ARM INSTALLATION, POWER SHALL RUN FROM THE POWER COMPANY SERVICE POINT UNDERGROUND DIRECTLY TO THE POWER SERVICE PANEL, THEN TO THE CONTROLLER, AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE APPLICATION WITH THE POWER COMPANY IN ADVANCE OF NEEDING THE SERVICE. INSTALLATION OF NEW SERVICE POLE (IF NEEDED) IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS COST ABSORBED.
16. IF IT IS NECESSARY TO RUN ELECTRIC SERVICE CABLE FROM ONE POLE TO ANOTHER, THE SERVICE CABLE SHALL BE LASHED TO A SEPARATE MESSENGER CABLE LOCATED 1 FOOT MIN. ABOVE THE SIGNAL CABLE.
17. VEHICLE LOOP ASSEMBLIES SHALL BE INSTALLED IN THE TOP LAYER OF BINDER OR EXISTING SURFACE BEFORE THE FINAL SURFACE COURSE IS APPLIED.
18. PEDESTRIAN PUSHBUTTONS AND SIGNS TO BE INCLUDED IN PAY ITEM FOR TYPE 6 HEADS AT NO ADDITIONAL COST. SIDE OF POLE LOCATIONS OF PUSHBUTTONS MAY BE FIELD ADJUSTED.
19. FIELD DRILL AND TAP EXISTING POLES WHERE PEDESTRIAN SIGNALS AND PUSHBUTTONS ARE REQUIRED ON PLANS. (ABSORBED ITEM).
20. REFER TO WORKING NUMBER TSD-5 ``CONDUIT ENTRANCE DETAIL" WHEN NEW CONDUIT(S) ARE REQUIRED AT EXISTING SIGNAL POLES OR CONTROLLERS.
21. MESSENGER CABLE AND OTHER SUPPORTING DEVICES WHERE REQUIRED SHALL BE ABSORBED IN THE PAY ITEMS FOR ELECTRIC CABLE.
22. FOR PROTECTED/PERMITTED LEFT TURN PHASING: TYPE 7 OR 7A TRAFFIC SIGNAL HEADS (FIVE SECTION HEADS) SHALL OPERATE SUCH THAT THE CIRCULAR INDICATIONS DISPLAYED WILL BE IDENTICAL AND SIMULTANEOUS TO THE CIRCULAR INDICATIONS FOR THE ADJACENT THROUGH MOVEMENT SIGNAL HEADS; A CIRCULAR RED AND EITHER A GREEN ARROW OR YELLOW ARROW MAY BE DISPLAYED SIMULTANEOUSLY IN THE SAME FIVE SECTION HEAD. FOR TYPE 2 FYA TRAFFIC SIGNAL HEADS, OPERATION SHALL BE AS FOLLOWS: THE PROTECTED PHASE OF THIS OPERATION SHALL DISPLAY A SOLID GREEN ARROW, FOLLOWED BY A SOLID YELLOW ARROW, AND ENDING WITH A SOLID RED ARROW. THE PERMITTED PORTION OF THIS OPERATION SHALL START WITH A FLASHING YELLOW ARROW, FOLLOWED BY A SOLID YELLOW ARROW, AND ENDING WITH A SOLID RED ARROW. THERE SHALL BE A DELAY (AS DIRECTED BY THE ENGINEER) BETWEEN THE END OF THE PROTECTED PORTION OF THIS OPERATION AND THE BEGINNING OF THE PERMITTED PORTION OF THIS OPERATION. DURING THIS DELAY, THE OPPOSING PHASE THRU HEADS ARE CAPABLE OF DISPLAYING A GREEN BALL. SIGNAL CONTROLLER WITH FIRMWARE NECESSARY TO ACCOMPLISH THIS DELAY SHALL BE PROVIDED.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SIGNALS IF NECESSARY TO ACCOMMODATE ROADWAY CONSTRUCTION AND SHALL BE PAID FOR UNDER PAY ITEM 619-H1, TRAFFIC SIGNALS.
24. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING FINAL INSPECTION MEETING WITH DISTRICT OFFICE, PROJECT OFFICE AND TRAFFIC ENGINEERING FOR SIGNAL PORTION OF THE PROJECT.
25. THERE SHALL BE A 30 DAY BURN IN PERIOD FROM THE TIME THE SIGNAL IS OPERATIONAL AS OUTLINED IN SECTION 634.03.3 OF THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION.
26. EMERGENCY VEHICLE PREMPTION (WHERE REQUIRED ON THE PLANS) SHALL HAVE A SECURITY ENABLED PHASE SELECTOR.

DATE	REVISION	BY
1/15/15	ADDED SHEET	AB

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

DETAIL OF TRAFFIC SIGNAL HEADS, TRAFFIC SIGNAL SIGNS, AND GENERAL NOTES

PROJECT NO.: HSIP-0064-01(029)

COUNTY: HARRISON

FILENAME: _____

DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER: TSD-1

SHEET NUMBER: 2003

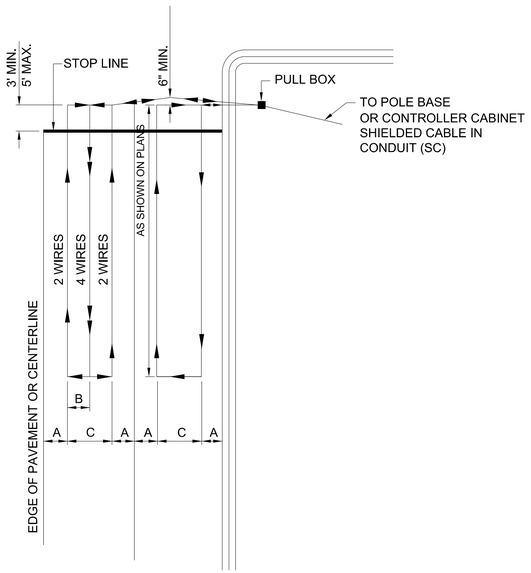
FMS CON.: 105293/301000

STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)

ADDENDUM

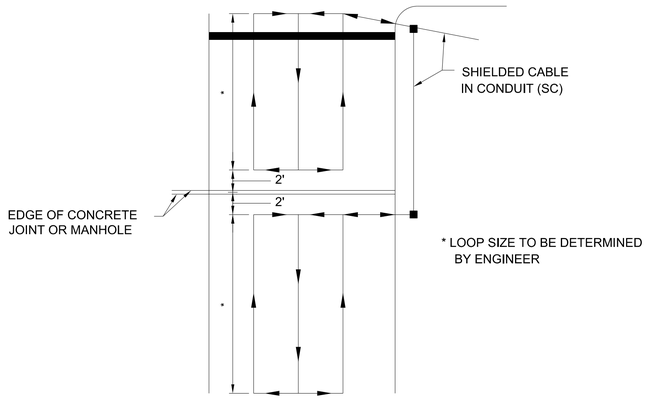
LANE WIDTH	"A"	"B"	"C"
10'	2.5'	2.5'	5'
11'	2.5'	3'	6'
12'	3'	3'	6'
14'	3'	4'	8'

MINIMUM LOOP SEPARATION
WHEN NO LANE LINES ARE
PRESENT IS 3'

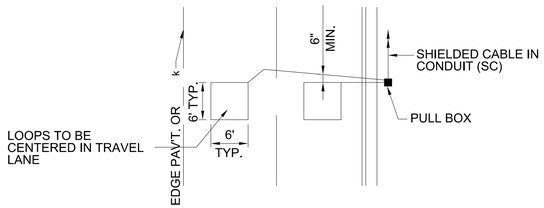


LARGE LOOP DETECTOR INSTALLATION DETAIL
NOT TO SCALE

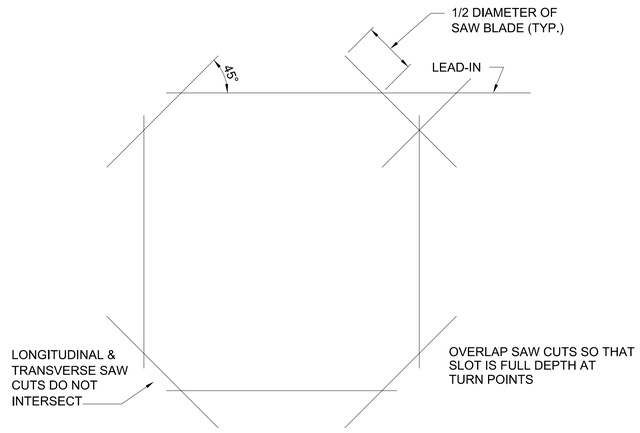
NOTE
NO LOOPS ARE TO BE INSTALLED THROUGH, OVER, OR UNDER TRANSVERSE CONCRETE JOINTS IN CONCRETE PAVEMENT, AND NO MANHOLES, INLETS, ETC. MAY BE LOCATED WITHIN A LOOP. IF ANY OF THE ABOVE ARE ENCOUNTERED THE LOCATION OF THE LOOP MAY BE VARIED SLIGHTLY AS DIRECTED BY THE ENGINEER. IF THE ABOVE ITEMS ARE UNAVOIDABLE, SMALLER LOOPS AS SHOWN BELOW MAY BE USED. SMALLER LOOPS USED TO REPLACE ONE LARGE LOOP MAY BE CONNECTED TO ONE CHANNEL.



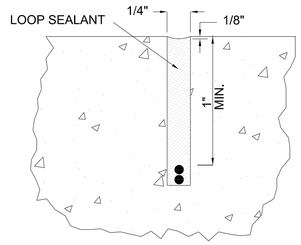
TYPICAL DETAIL OF LOOP DECTECTOR WHERE TRANSVERSE
CONCRETE JOINTS, MANHOLES, ETC. ARE ENCOUNTERED
NOT TO SCALE



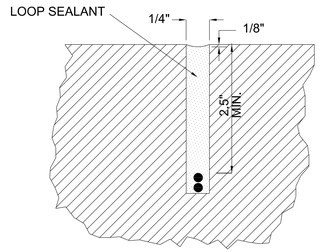
SMALL LOOP DETECTOR INSTALLATION DETAIL
NOT TO SCALE



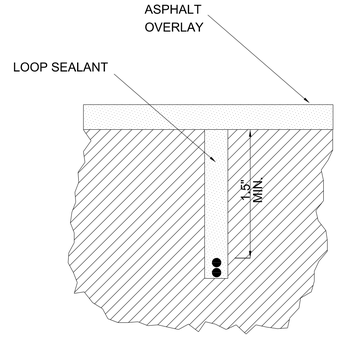
LOOP SLOT CONSTRUCTION DETAIL
NOT TO SCALE



CONCRETE



IN PLACE ASPHALT



ASPHALT
(NEW CONSTRUCTION)

BY	REVISION	DATE
AB	ADDED SHEET	1/15/15

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

LOOP DETECTOR DETAILS FOR TRAFFIC SIGNAL INSTALLATION

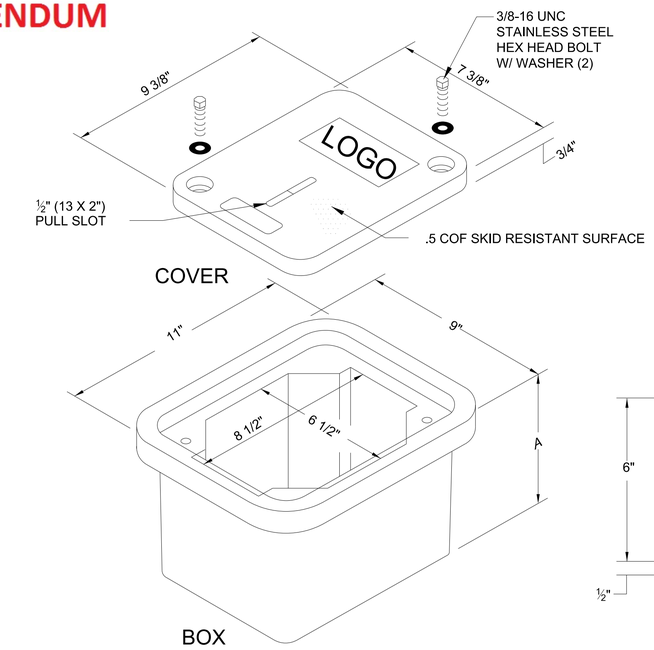
PROJECT NO.: HSIP-0064-01(029)
COUNTY: HARRISON
FILENAME:
DESIGN TEAM CHECKED DATE

WORKING NUMBER: TSD-2
SHEET NUMBER: 2004

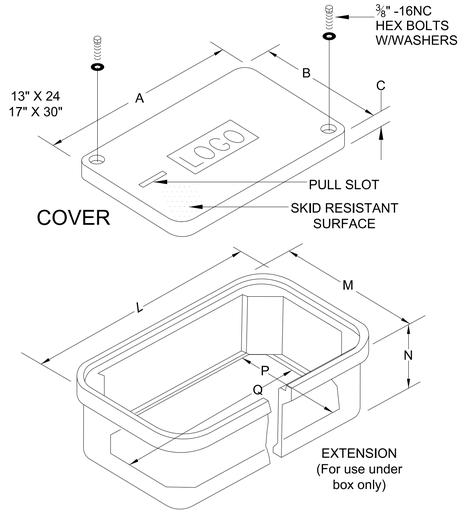
FMS CON.: 105293/301000

ADDENDUM

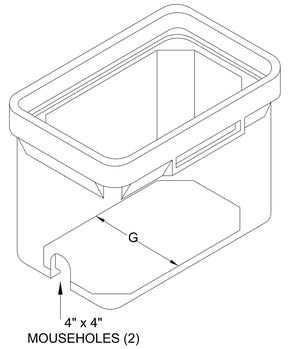
STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)

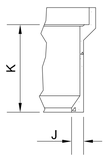


TYPE 1 PULLBOX
NOT TO SCALE



TYPE 2 or 3 PULLBOX
NOT TO SCALE





OPTIONS
1. Stainless steel standard penta-head bolt.
2. Specific cove logo.
3. Green or other colors
4. Special holes/knockouts

Covers (blank unless logo is specified)

DESCRIPTION	DIMENSION (IN.) A	B	C	WT. LBS.
Locking Cover	23-¼ 30-½	13-¾ 17-½	2 2	32 47
Non-Locking Cover	23-¼ 30-½	13-¾ 17-½	2 2	33 48
Steel Locking Cover	23-¼ 30-½	13-¾ 17-½	2 2	65 90
Heavy Duty Locking Cover	23-¼ 30-½	13-¾ 17-½	2 2	50 74

Boxes (Stackable)	DIMENSION (IN.)							
DESCRIPTION	D	E	F	G	H	J	K	WT. LBS.
Standard Box	25	15-½	12	9-¾	19-¼	1-¼	10	53
	25	15-½	18	9-¾	19-¼	1-¼	16	62
	32-¼	19-¼	12	13-½	26-½	1-¼	10	82
	32-¼	19-¼	18	13-½	26-½	1-¼	16	94
	32-¼	19-¼	22	13-½	26-½	1-¼	20	106
Box W/ Mouseholes	25	15-½	12	9-¾	19-¼	1-¼	10	49
	25	15-½	18	9-¾	19-¼	1-¼	16	61
	32-¼	19-¼	12	13-½	26-½	1-¼	10	80
	32-¼	19-¼	18	13-½	26-½	1-¼	16	80
	32-¼	19-¼	22	13-½	26-½	1-¼	20	104
Box w/ Solid Base	25	15-½	18-½	N/A	N/A	N/A	16	73
	32-¼	19-¼	18-½	N/A	N/A	N/A	16	106

*Not to be used for extensions

Extensions (For use under box only)

DESCRIPTION	DIMENSION (IN.) L	M	N	P	Q	R	S	WT. LBS.
Extension (One Per Box)	23-¾ 30-⅞	14-¼ 17-⅞	8-¾ 8-¾	10-¼ 13-⅞	19-¾ 26-⅞	8 8	1 1	25 47
Extension w/ Solid Base	23-¾ 30-⅞	14-¼ 17-⅞	9-¼ 9-¼	N/A N/A	N/A N/A	8 8	N/A N/A	35 65

Underground enclosures shall be Composolite. Enclosures and covers shall be concrete gray color and rated for no less than 8,000 lbs. over a 10" X 10" area and be designed and tested to temperatures of -50 F. Material compressive strength shall be no less than 11,000 psi. Covers shall have a minimum coefficient of friction of .5. Boxes shall be stackable for extra depth.

Covers (blank unless logo is specified)

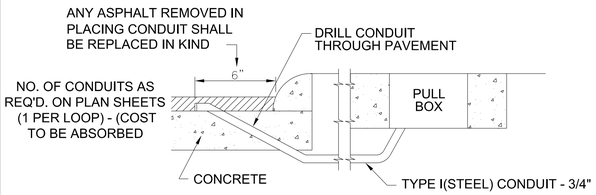
DESCRIPTION	WEIGHT #	DESIGN/TEST LOAD #	ANSI TIER
W/2 Bolts	4	8,000 / 12,000	8
Gasketed w/4 Bolts	4	8,000 / 12,000	8

Gasketed covers must be used with a gasketed box. Gaskets reduce the inflow of fluids but do not make the enclosure water tight.

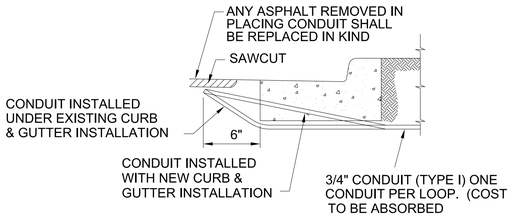
Boxes (Stackable with self-aligning, replaceable EZ-Nut)

DESCRIPTION	WEIGHT #	DIMENSION A	DESIGN/TEST LOAD #	ANSI TIER
Open Bottom	12	6¾"	15,000 / 22,500	15
Open Bottom w/Gasket	12	6¾"	15,000 / 22,500	15
Solid Bottom	14.5	7¼"	15,000 / 22,500	15
Solid Bottom w/Gasket	14.5	7¼"	15,000 / 22,500	15

Dimensions & weights in parentheses are metric equivalent.



SIDE



CONDUIT NOTES:
1. CONDUIT TO BE SEALED WITH DUCT SEALER ONCE CABLE IS INSTALLED.

2. SAWCUT SIDEWALK AT EXISTING JOINTS AND REPLACE ENTIRE SECTION TO MATCH EXISTING MATERIAL. WHEN NEW SIDEWALK IS BEING CONSTRUCTED, CONDUIT, PULLBOX, AND POLE ARE TO BE INSTALLED BEFORE SIDEWALK IS POURED.

3. TYPE I CONDUIT IS RIGID PIPE; TYPE IV CONDUIT IS PVC.

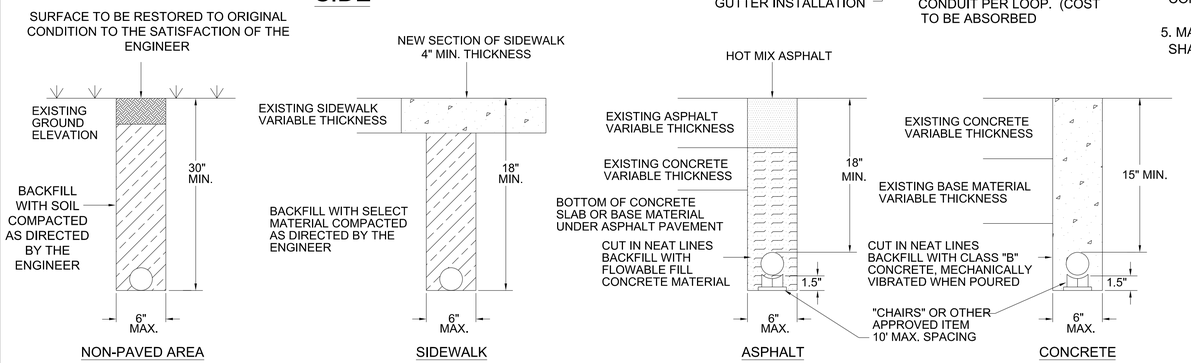
4. ELECTRICAL SUBCONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION WORK UNDER ROADWAY WITH ROADWAY CONSTRUCTION PHASING IN ORDER TO MINIMIZE JACKING.

5. MATERIAL REMOVED THAT IS NOT SUITABLE FOR BACKFILL OR IS EXCESS SHALL BE DISPOSED OF BY THE CONTRACTOR. (COST ABSORBED)

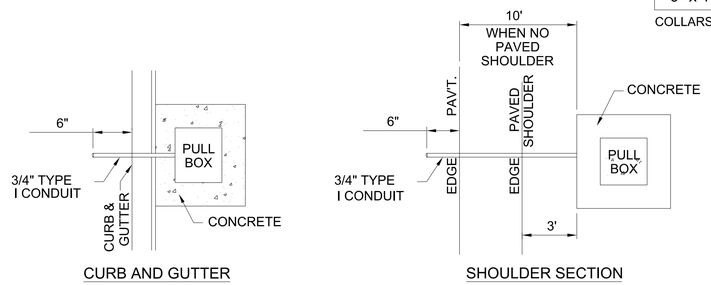
NOMINAL PULLBOX SIZES

TYPE 1	TYPE 2	TYPE 3
9" x 11" x 6 3/4"	15" x 25" x 18"	19" x 32" x 24"

COLLARS AND GRAVEL UNDER PULLBOX REQUIRED FOR ALL TYPES OF PULLBOXES



CONDUIT TRENCHING DETAIL
NOT TO SCALE



PULL BOX LOCATION DETAIL
NOT TO SCALE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PULL BOX AND CONDUIT TRENCHING DETAILS FOR TRAFFIC SIGNAL INSTALLATION

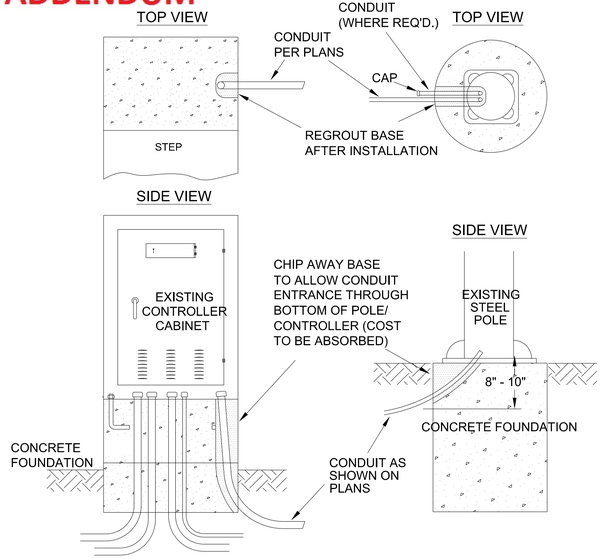
PROJECT NO.: HSIP-0064-01(029)
COUNTY: HARRISON
FILENAME: _____
DESIGN TEAM _____ CHECKED _____ DATE _____

DATE	REVISION	BY
1/15/15	ADDED SHEET	AB

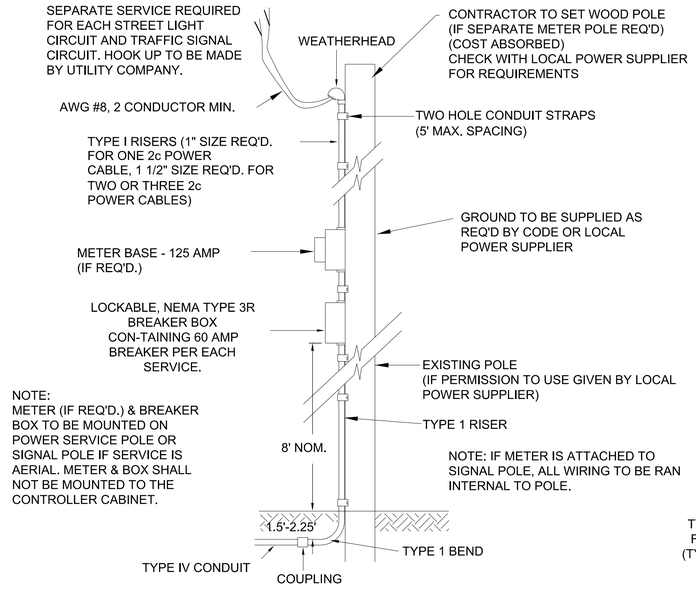
WORKING NUMBER
TSD-3
SHEET NUMBER
2005

STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)

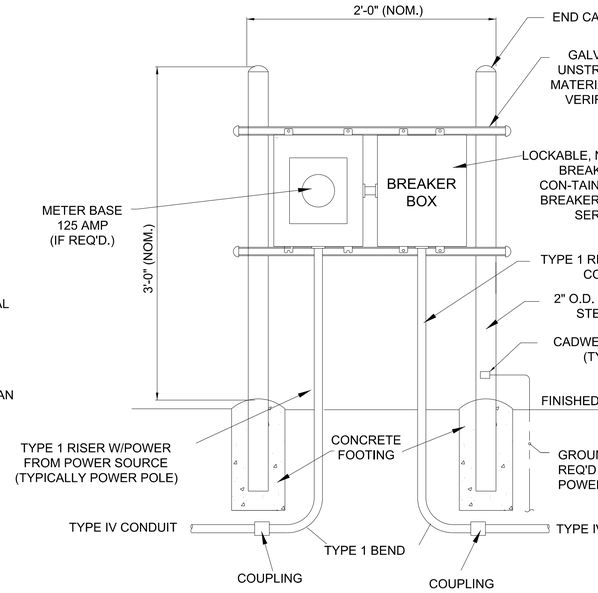
ADDENDUM



CONDUIT ENTRANCE DETAIL
(EXISTING CABINET OR POLE)

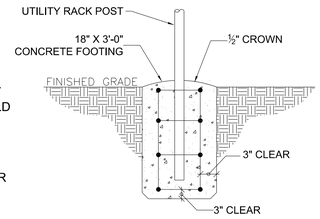


POWER SERVICE DETAIL



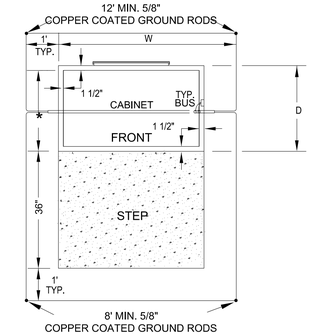
POWER SERVICE PANEL

TO BE USED WHEN METER IS NOT SET ON POLE (COST ABSORBED)

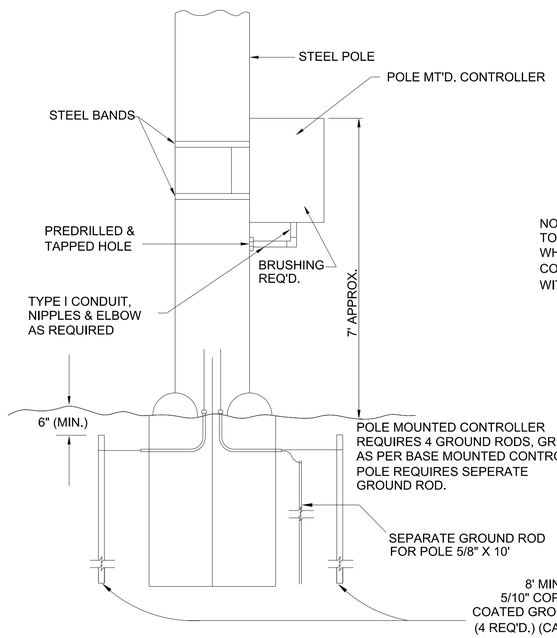


PANEL FOOTING

NOTE:
REINFORCED WITH 6 X 6 X 6 GA WELDED WIRE FABRIC, MAINTAIN 3" CLEAR CONCRETE COVER AROUND REINFORCING AND EMBEDDED ITEMS.

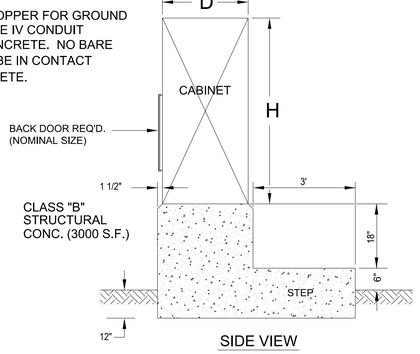


TOP VIEW



TYPICAL DETAIL FOR POLE MOUNTED CONTROLLER

NOT TO SCALE



SIDE VIEW

NOTE: ALL COPPER FOR GROUND TO BE IN TYPE IV CONDUIT WHEN IN CONCRETE. NO BARE COPPER TO BE IN CONTACT WITH CONCRETE.

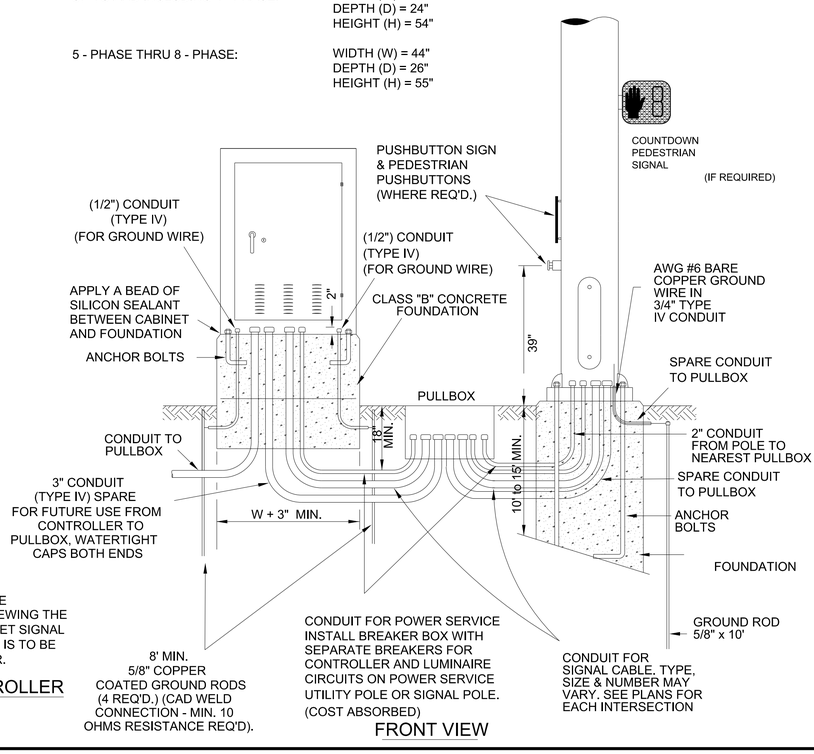
NOTE: THE BASE MOUNTED CABINET IS TO BE SITUATED IN THE OPTIMUM POSITION FOR VIEWING THE CONTROLLER OPERATION AND THE ON STREET SIGNAL DISPLAYS SIMULTANEOUSLY. THIS POSITION IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

TYPICAL DETAIL OF BASE FOR CONTROLLER EQUIPMENT CABINET

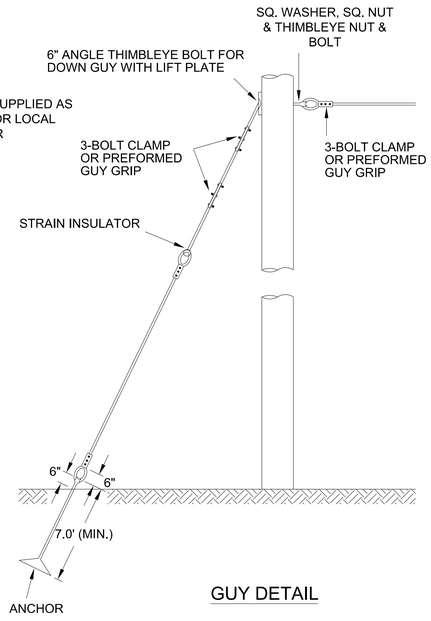
NOT TO SCALE

DIMENSIONS OF BASE MOUNTED CONTROLLER EQUIP. CABINETS (MIN.)

UP TO AND INCLUDING 4 - PHASE:	WIDTH (W) = 38" DEPTH (D) = 24" HEIGHT (H) = 54"
5 - PHASE THRU 8 - PHASE:	WIDTH (W) = 44" DEPTH (D) = 26" HEIGHT (H) = 55"



FRONT VIEW



GUY DETAIL

NOTES:
1. THE ANCHOR ROD IS 6" DIAMETER.

2.DIFFERENT ANCHORS ARE: CHANCE 8-WAY EXPANSION ANCHORS OR 3 HELICAL 203mm OR AS NECESSARY FOR ADEQUATE HOLD.

3.ANCHORS ARE TO BE 15' BEHIND THE HOLE IN LINE WITH THE SPAN, RESTRICTION TO THIS WILL BE PROPERTY LINES OR OBSTRUCTIONS.

4.ALL ATTACHMENT FITTINGS SHALL BE HOT DIP GALVANIZED UNLESS STATED OTHERWISE.

5.GUYS TO BE INSTALLED AS REQUIRED, DETERMINED BY THE ENGINEER (COST ABSORBED).

DATE	REVISION	BY
1/15/15	ADDED SHEET	AB

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TYPICAL DETAILS OF CONTROLLER CABINET MOUNTINGS, TYPE 1 POLE ATTACHMENTS AND MISCELLANEOUS DETAILS

PROJECT NO.: HSIP-0064-01(029)

COUNTY: HARRISON

WORKING NUMBER: TSD-5

SHEET NUMBER: 2006

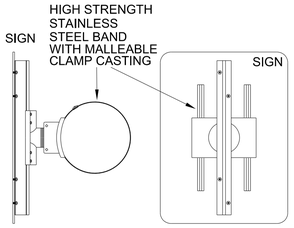
FILENAME: _____

DESIGN TEAM _____ CHECKED _____ DATE _____

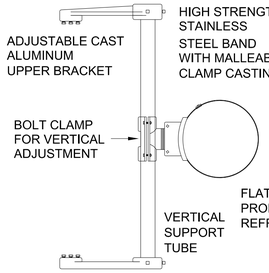
ADDENDUM

FMS CON.: 105293/301000

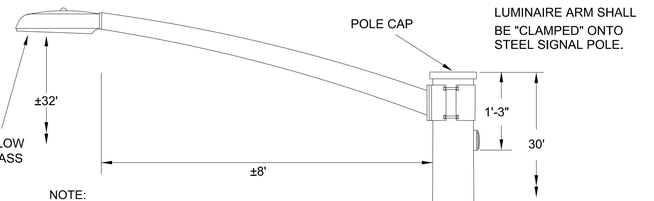
STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)



MAST ARM SIGN BRACKET (TYPICAL)



SIGNAL MOUNTING BRACKET (TYPICAL)



NOTES:
LUMINAIRE ARM SHALL BE "CLAMPED" ONTO STEEL SIGNAL POLE.

NOTE:
LUMINAIRE AND PHOTOELECTRIC CONTROL 250 WATT H.P.S. LIGHT FIXTURE WITH 250 WATT LAMPS OR AS NOTED ON THE PLANS AND PHOTO CELL TO BE PROVIDED BY THE CONTRACTOR. (COST ABSORBED) LUMINAIRE CABLE FROM POLE TO FIXTURE SHALL BE COST ABSORBED.

TYPE IV POLE
(SINGLE OR DOUBLE ARM)

NOTES:

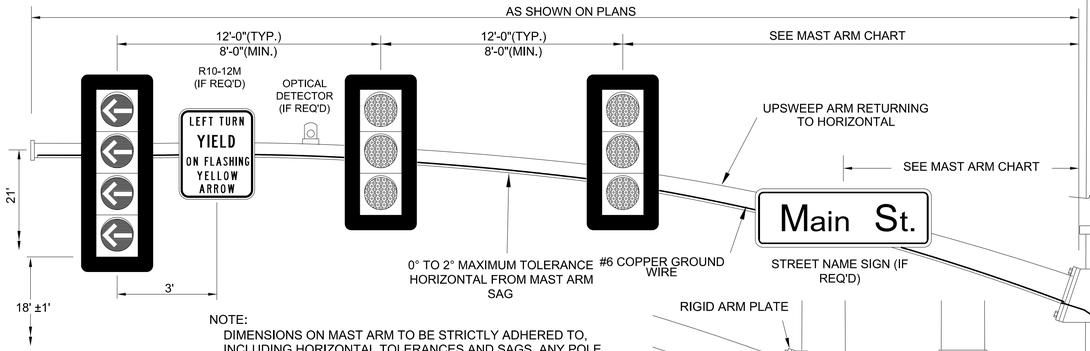
1. WIRE ENTRANCE TO MAST ARM WILL BE FIELD DRILLED TO CORRESPOND TO THE LOCATION OF THE SIGNAL HEADS WHEN ALIGNED IN FIELD.

2. RED SECTION INDICATIONS TO BE APPROXIMATELY SAME HEIGHT.

3. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE POLE MANUFACTURER.

4. THE CONTRACTOR SHALL PROVIDE MAST ARM POLE DESIGN CERTIFICATION AND CALCULATIONS AS OUTLINED IN SECTION 722.02 OF STANDARD SPECIFICATIONS. DESIGN STANDARD FOR MAST ARMS POLES SHALL BE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.USE FATIGUE CATEGORY II. DO NOT CONSIDER GALLOPING OR TRUCK FORCES. USE 50 YEAR DESIGN LIFE. WIND AND ICE LOADS VARIABLE BASED UPON MAPS IN THE 2001 AASHTO SPECIFICATION. USE UPSWEPT MAST ARMS.

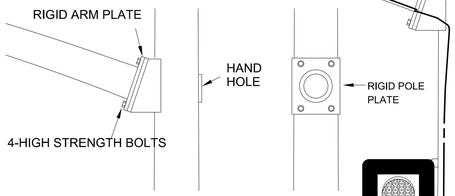
5. #6 COPPER GROUND WIRE INSIDE POLE AND MAST ARM TO BE COST ABSORBED.



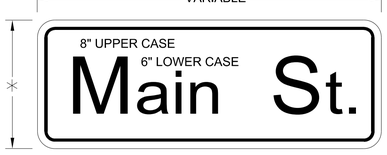
NOTE:
DIMENSIONS ON MAST ARM TO BE STRICTLY ADHERED TO, INCLUDING HORIZONTAL TOLERANCES AND SAGS. ANY POLE FAILING TO MEET THESE DIMENSIONS WILL BE REJECTED.

TYPE II POLE
TYPE II POLE - (SINGLE ARM)

TYPE III POLE
TYPE III POLE - (DOUBLE ARM)

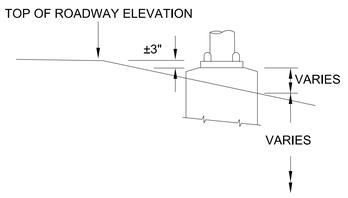


MAST ARM ATTACHMENT

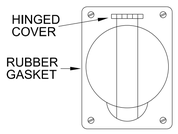


STREET NAME SIGNS
(TYPICAL)(IF REQUIRED)

* HEIGHT = 1'-6" FOR SINGLE NAME, 2'-0" FOR 2 NAMES
THICKNESS = 0.1" WHITE TYPE IX SHEETING
ON GREEN TYPE III SHEETING
8" UPPER CASE, 6" LOWER CASE LETTERS; SERIES "C"
STREET NAME SIGNS REQUIRE A MINIMUM OF 2 MOUNTING BRACKETS (30" MAXIMUM SPACING BETWEEN BRACKETS)

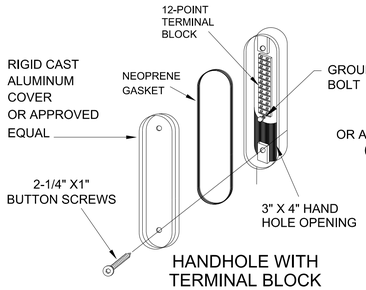


LOW SHOULDER FOUNDATION DETAIL

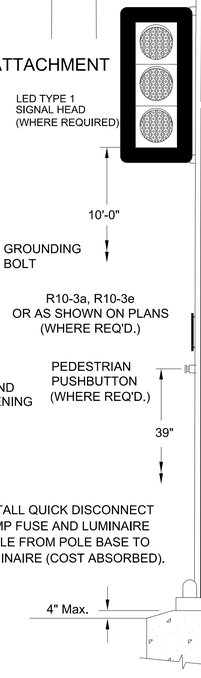


OUTLET BOX WITH SINGLE 15 AMP - 125 VOLT POLARIZED RECEPTACLE (GROUNDING TYPE)

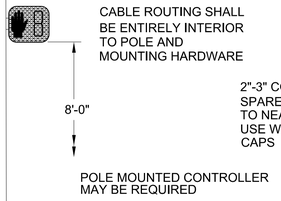
OUTLET

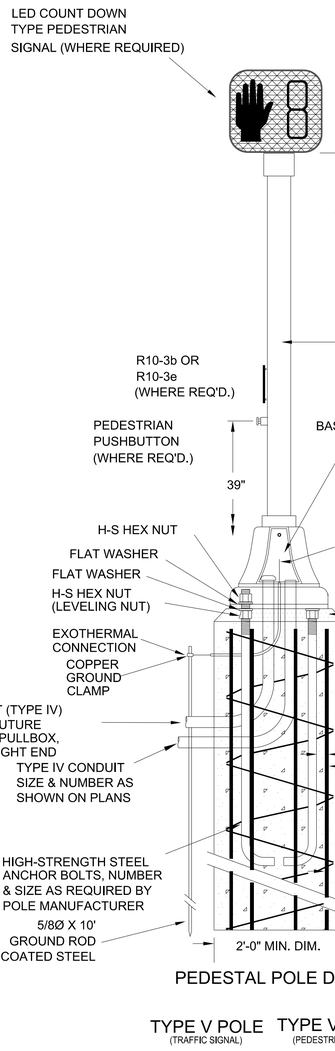


HANDHOLE WITH TERMINAL BLOCK



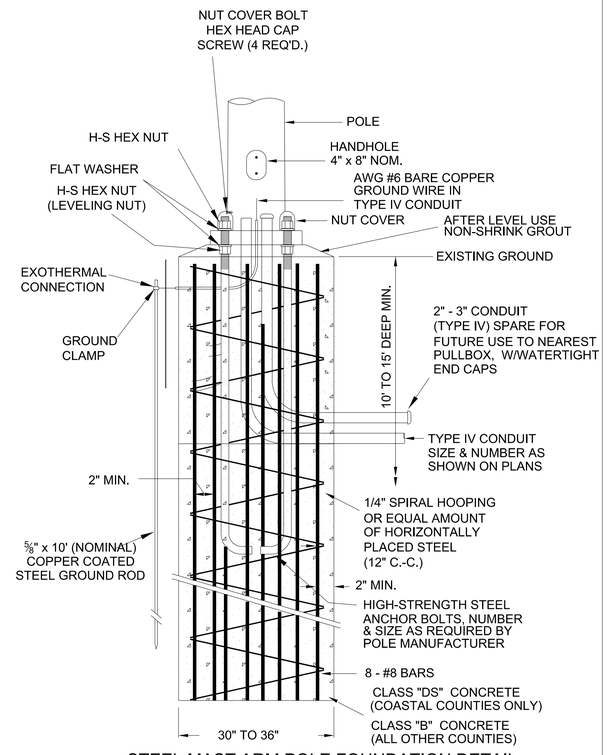
STEEL MAST ARM POLE DETAIL





PEDESTAL POLE DETAIL

TYPE V POLE (TRAFFIC SIGNAL) TYPE VI POLE (PEDESTRIAN SIGNAL)



STEEL MAST ARM POLE FOUNDATION DETAIL

GENERAL FOUNDATION NOTES

1. EXACT DIMENSIONS AND LOCATIONS OF ANCHOR BOLTS TO BE SUPPLIED BY THE MANUFACTURER. ANY FOUNDATIONS FAILING TO MEET MINIMUM DIMENSIONS WILL BE REJECTED.

2. DRY SHAFT EXCAVATION MUST MEET REQUIREMENTS OF SECTION 803.03.2.3.2. IF GROUNDWATER OR HOLE INSTABILITY IS ENCOUNTERED, SLIP CASING AND 10' TREMIE SHALL BE REQUIRED.

3. WIND LOAD DETERMINES SHAFT DIAMETER AND DEPTH:

   ALL TYPE IV 30' POLE SHAFT - USE 36" DIAMATER, 15' DEPTH

   COASTAL COUNTIES (140mph) - 36" DIAMETER, 15' DEPTH WITH SLIP CASING.

   100mph to 130mph - 36" DIAMETER, 15' DEPTH, SLIP CASING NOT REQUIRED

   ALL OTHER COUNTIES (90mph) -
   SINGLE MAST ARM: 30" DIAMETER, 10' DEPTH
   DOUBLE MAST ARM: 36" DIAMETER, 12' DEPTH
   *SEE WIND LOAD MAP IN 2001 AASHTO GUIDELINES.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

MAST ARM AND PEDESTAL POLE DETAILS FOR TRAFFIC SIGNAL INSTALLATION

PROJECT NO.: HSIP-0064-01(029)

COUNTY: HARRISON

DATE	REVISION	BY
1/15/15	ADDED SHEET	AB

WORKING NUMBER: TSD-6

FILENAME: TSD-6.dgn

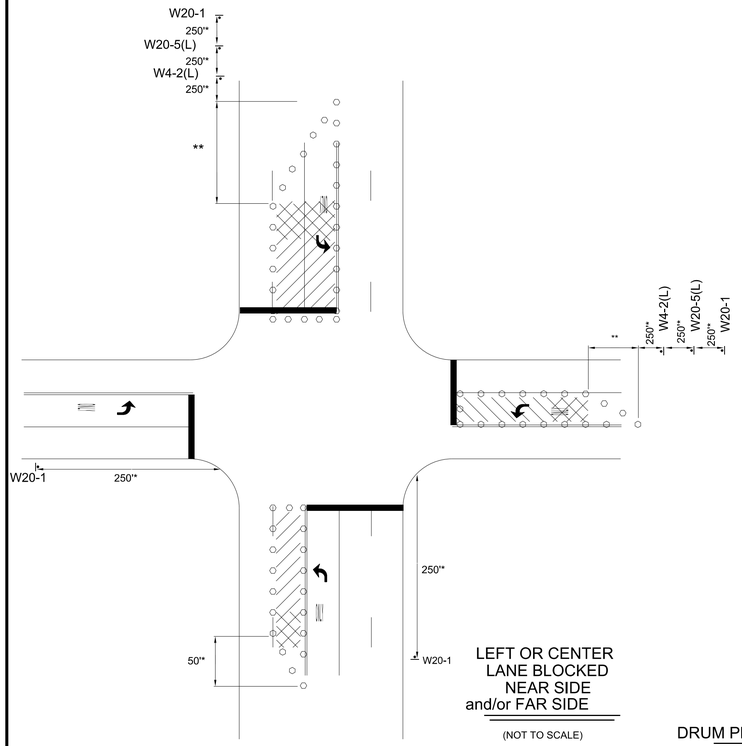
SHEET NUMBER: 2007

DESIGN TEAM _____ CHECKED _____ DATE _____

ADDENDUM

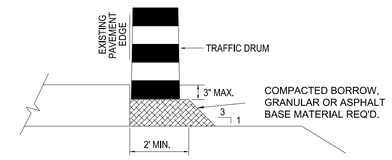
FMS CON.: 105293/301000

STATE	PROJECT NO.
MISS.	HSIP-0064-01(029)



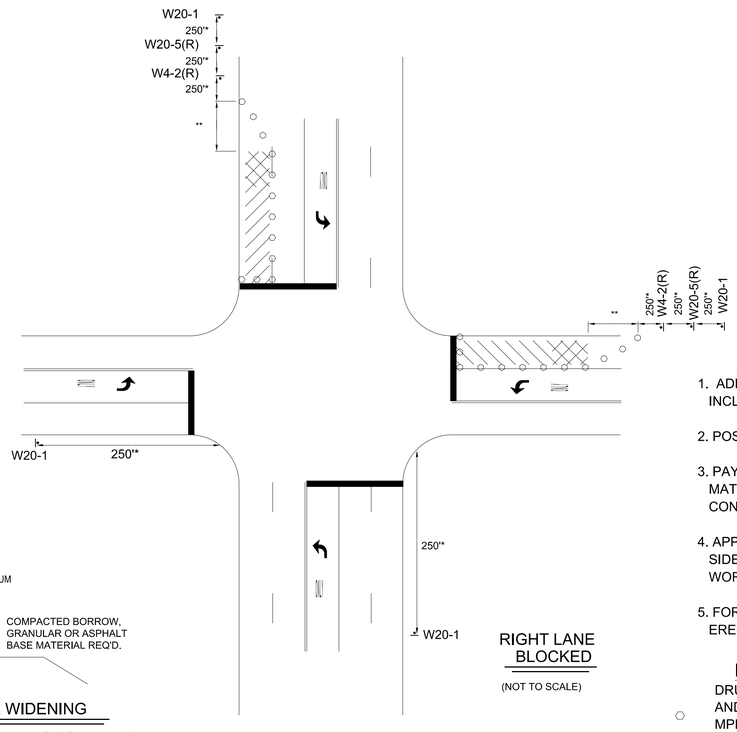
LEFT OR CENTER LANE BLOCKED NEAR SIDE and/or FAR SIDE

(NOT TO SCALE)



DRUM PLACEMENT ON LOW SHOULDERS OR WIDENING

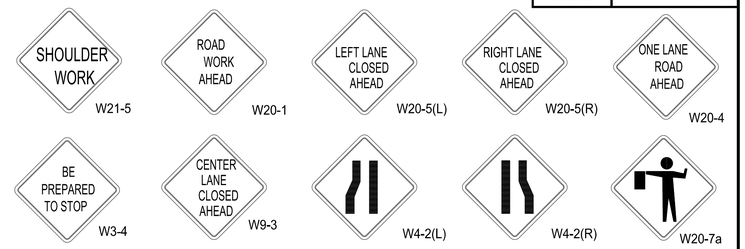
CONTRACTOR SHALL PLACE PLASTIC DRUMS ADJACENT TO ROADWAY IN AREAS WHERE THE WIDENING HAS NOT BEEN CONSTRUCTED TO WITHIN TWO INCHES OF EXISTING PAVEMENT ELEVATIONS. DRUMS REQUIRED WHERE WORK ZONE INCLUDES UNDERCUT SHOULDER AND REMOVAL OF CURB & GUTTER. DRUMS TO BE PLACED AS SHOWN IN DETAILS, LEFT FOR NIGHT OPERATION OR SUSPENSIONS OF WORK. COST TO BE ABSORBED (PAY ITEM S-618-A).



RIGHT LANE BLOCKED

(NOT TO SCALE)

SIGN LEGEND



GENERAL NOTES

1. ADDITIONAL ADVANCE WARNING SIGNS MAY BE NECESSARY. ANY ADDITIONAL SIGNS SHOULD BE INCLUDED UNDER PAY ITEM 618-A, MAINTENANCE OF TRAFFIC.
2. POST MOUNTED SIGNS SHALL HAVE A 7' MINIMUM MOUNTING HEIGHT.
3. PAYMENT FOR ALL SIGNS, CONES, DRUMS, CONCRETE BARRIERS, STEEL PLATES AND OTHER MATERIALS, BARRICADES, LABOR AND INCIDENTALS REQUIRED TO IMPLEMENT THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED UNDER PAY ITEM 618-A, MAINTENANCE OF TRAFFIC.
4. APPROACH SIDE TRAFFIC CONTROL TO BE USED WHEN WORK OCCURS ON EITHER THE APPROACH SIDE OR THE FAR SIDE OF THE INTERSECTION. FAR SIDE TRAFFIC CONTROL IS NOT NEEDED WHEN WORK IS CONFINED TO THE APPROACH SIDE ONLY.
5. FOR A DIVIDED HIGHWAY SITUATION, A SECOND SET OF ADVANCE WARNING SIGNS SHALL BE ERECTED IN MEDIAN AREA (8' MIN. MEDIAN WIDTH REQUIRED).

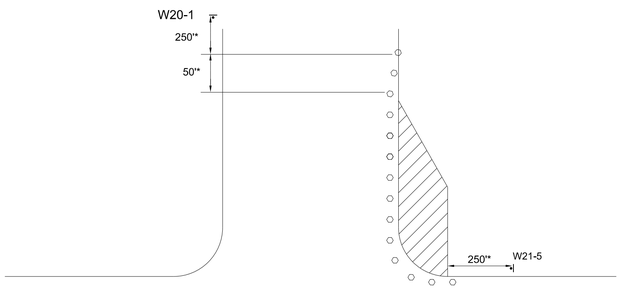
LEGEND

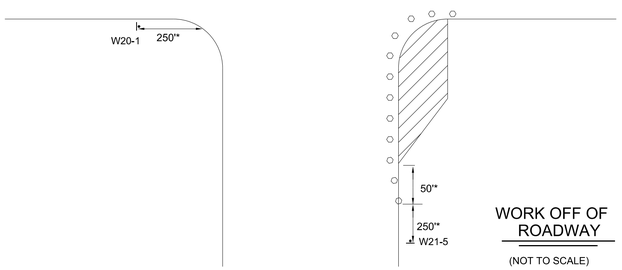
DRUMS (30' MAXIMUM SPACING) - CONES SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF TEN (10) POUNDS. CONES USED IN SPEED ZONES EQUAL TO OR GREATER THAN 45 MPH SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF FIFTEEN (15) POUNDS. ALL CONES SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.

SIGNS - SEE SIGN LEGEND MIN. SIZE 48" x 48", BLACK ON ORANGE BACKGROUND

FLAGGER WITH PADDLE - 18" STOP/SLOW PADDLESACCEPTED AS PROPER TRAFFIC CONTROL DEVICES SHALL BE USED. HANDHELD FLAGS SHALL NOT BE FOR FLAGGING OPERATION.

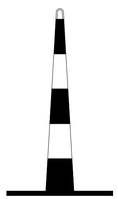
W20-1





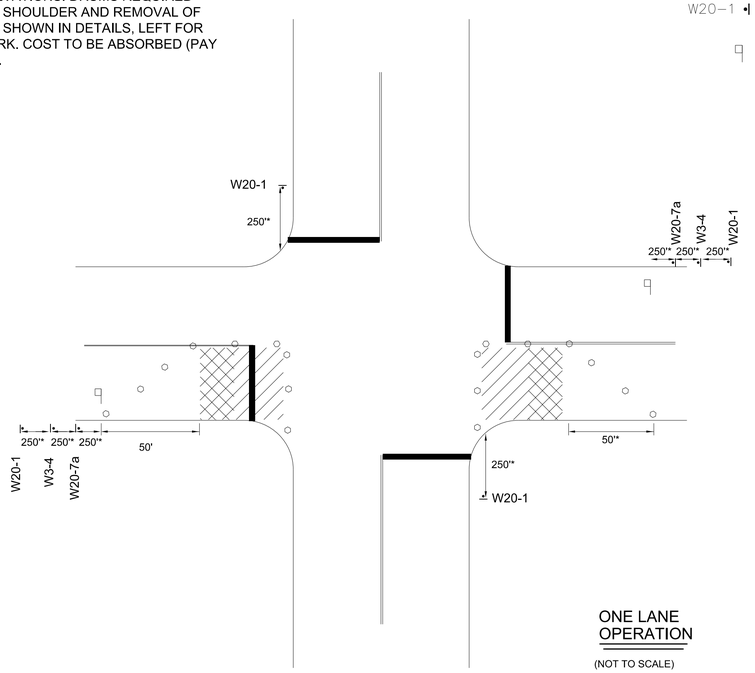
WORK OFF OF ROADWAY

(NOT TO SCALE)



TRAFFIC CONE

CONES SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF TEN (10) POUNDS. CONES USED IN SPEED ZONES EQUAL TO OR GREATER THAN 45 MPH SHALL BE NARROW PROFILE WITH A MINIMUM HEIGHT OF 28 INCHES AND A MINIMUM WEIGHT OF FIFTEEN (15) POUNDS. ALL CONES SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.



ONE LANE OPERATION

(NOT TO SCALE)

WORK AREA

BUFFER AREA

* CONSIDERED MINIMUM DISTANCE - ENGINEER TO DETERMINE APPROPRIATE SPACING IN THE FIELD

**

SPEED LIMIT M.P.H.	BUFFER FEET	TAPER LENGTH (Feet) (Per 12' Lane Shift)
20	115	80
25	155	125
30	200	180
35	250	245
40	305	320
45	360	540
50	425	600
55	495	660
60	570	720
65	645	780
70	730	

DATE	REVISION	BY
1/15/15	ADDED SHEET	AB

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN
(TYPICAL SIGNAL INSTALLATION)

PROJECT NO.: HSIP-0064-01(029)

COUNTY: HARRISON

FILENAME: _____

DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER
TSD-7

SHEET NUMBER
2008